Thank you for purchasing the HyperDrive COLORSPACE

The HyperDrive COLORSPACE is a high performance memory card backup device with a high resolution 2.2" color LCD screen. Supporting 18 different types of memory card formats, the COLORSPACE has the world's fastest memory card backup speed at 25MB/s(download 1GB in under 1 minute) and an extremely long battery life (backup to 120GB on a single battery charge). With unique features like 32-bit copy verification and built-in card recovery tool in a ultra compact package, the COLORSPACE is designed as the ultimate photo backup device for photographers to safely backup, store and view their photos on the go without the need for a computer.
Before using COLORSPACE, try it out while reading this User Manual to familiarize yourself with device operations.
To prevent accidents and damage, read the Safety Information on the next page.

IMPORTANT! Test the Device Before Using

Before using HyperDrive COLORSPACE, test backup a few files from all the memory cards that you will be using and check with a computer that all the data is properly copied to the COLORSPACE. If the device is faulty or memory card is incompatible and the data cannot be backed up or read by a computer, Sanho cannot be held liable for any loss or inconvenience caused.

Inspect the contents of the package and contact your dealer if you find any missing items or defects. Included are the following:

- HyperDrive COLORSPACE
- USB cable
- AC adapter
- Car charger
- Soft carry case
- Screwdriver
- User manual

The HyperDrive COLORSPACE is available both with and without a hard drive installed. Make sure the capacity of the hard drive suits your needs.
The information in this manual is correct at the time of printing. Please refer to www.hyperdrive.com for any updates.

Safety Information

Warning!

Install only 18650 Li-ion batteries from authorized HyperDrive sources. Installing other types of batteries may prevent the COLORSPACE from operating properly and cause damage.

Moreover, observe correct polarity when installing a battery. Incorrect polarity may prevent the COLORSPACE from operating properly and cause serious damage if the battery short-circuits.

If the COLORSPACE emits any strange sounds or smells, high heat or smoke, power off the device immediately and remove the battery. Remove the battery carefully to avoid burning yourself.

Do not use the COLORSPACE in a moist environment. Do not handle the device with wet hands. If water enters the device, remove the battery immediately and return the device to your dealer for inspection. If liquid corrodes the device, it may short-circuit and cause a fire.

Table of contents

Basic Operation

Understanding the COLORSPACE 4
Using the Keypad 5
Installing a Hard Drive 6
Replacing the Battery 7
Charging the Battery 8
Turning the COLORSPACE On and Off 9
Backup a Memory Card to COLORSPACE 10
Connecting the COLORSPACE to a Computer via USB 11

Photo Management

Browse Photos 14
Search Photos 16
Recover Photos 17
Build Thumbs 18

Setup

Backup Setup 19
Browser Setup 22
Interface Setup 22

Advanced Functions

File Management 23
CF Cards Authenticity Verification 24
CardErase 25
Memory Card Scan/Repair 26
Hard Drive Formatting 27
Firmware Updates 28
Wallpaper Setup 29

Specifications 31

Understanding the COLORSPACE

Using the keypad

To turn on COLORSPACE,press and hold [⏻] until the device starts up.

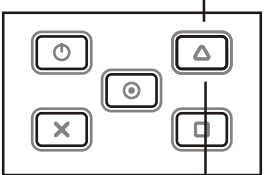
To turn off COLORSPACE, press [⏻] on the main menu or press and hold [✕] until the device shuts off.

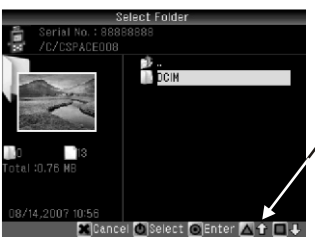
To select a function on a menu screen, press the button corresponding to the function you want to select.

To select an option on a function screen, press the button corresponding to the option at the bottom of the screen.

To backup a memory card, first insert a memory card into the appropriate card slot. Turn on COLORSPACE and select "Backup" on the main menu.

On this menu screen, pressing [△] connects the device to a computer.





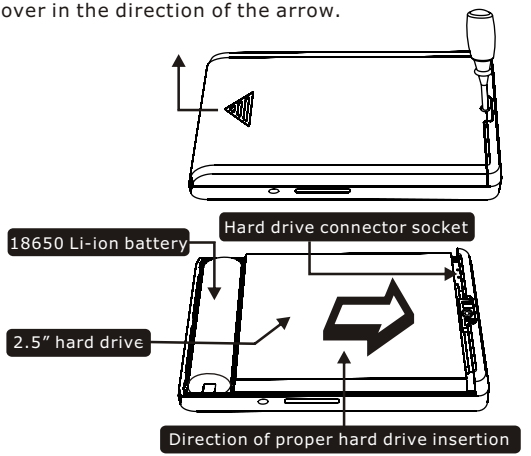
On this function screen, pressing [△] scrolls upward.

Installing a Hard Drive

Note

Refer to this section only if you have purchased a COLORSPACE (casing only) without a hard drive installed or if you plan to upgrade or change the internal hard drive.

Remove the screw on the back cover as illustrated. Slide the back cover in the direction of the arrow.



Use only 2.5" IDE/PATA/ATA-6/ATA-100 (44 pins) hard drive that is less than 10mm in thickness. Ensure that the hard drive is set to Master. Insert the hard drive in the direction as shown in the above diagram with the hard drive information sticker facing outwards and hard drive circuit board facing inwards. Ensure that the male pins of the hard drive align properly and insert fully into the female socket on the COLORSPACE. Some of pins on the hard drive may be unused but if the hard drive is installed properly, you will be able to close back the back cover. If you cannot close the back cover properly, check that you have installed the hard drive correctly.

Note

Do not turn on the COLORSPACE without the back cover in place.

Replacing a Battery

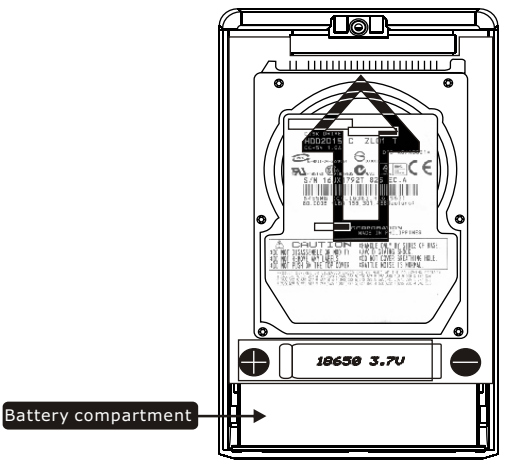
Your COLORSPACE already come with a battery installed. Refer to this section only if you are replacing the battery.

Use only a 18650 Li-ion battery from authorized HyperDrive sources. Other types of batteries may damage the COLORSPACE.

Warning!

If you insert the battery with the polarities incorrect, the device will not operate and under certain circumstances, may even damage the device.

To replace the battery, remove the back cover, insert the new battery in the correct polarity and replace the back cover.

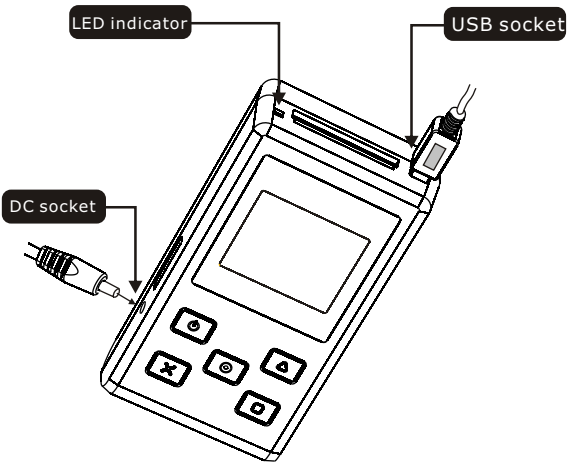


Note

After you have replaced the battery, turn on the COLORSPACE to check that the device will power on.

Charging the Battery

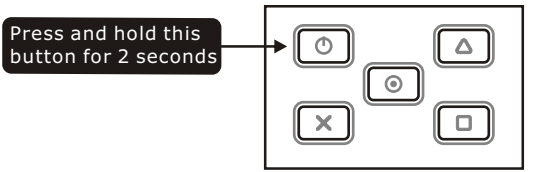
Connect the COLORSPACE via AC adapter or USB power to charge the internal battery. The LED indicator will light up to indicate that charging is in process. Once the battery is fully charged, the LED indicator light will dim. It will take approximately 2.5 hours (via AC adapter)/5 hours(via USB) to full charge an almost empty battery.



Turning the COLORSPACE On/Off

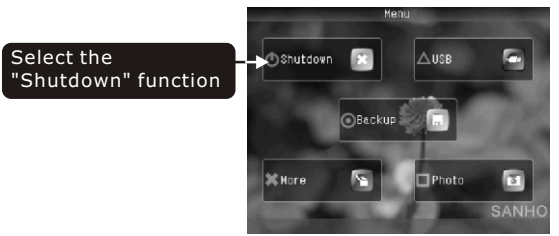
To turn on the COLORSPACE:

Press and hold ⏻ for 2 seconds.

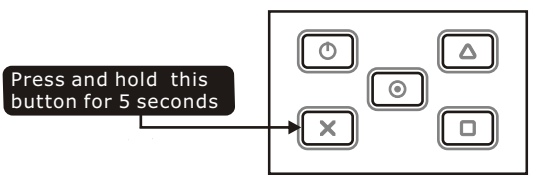


To turn off the COLORSPACE:

Press ⏻ on the main menu.



Alternatively, press and hold ✕ for 5 seconds.



Backup a Memory Card to COLORSPACE

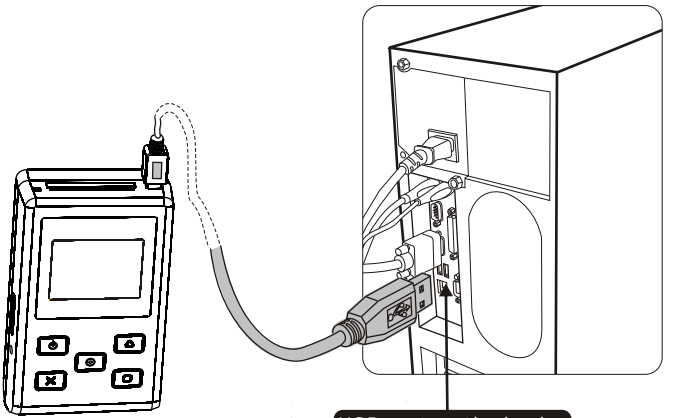
Insert a memory card into the COLORSPACE.
Turn on the COLORSPACE.
On the main menu, press (“Backup”) to start the copying/backup process.

Note

If the source memory card has errors and/or has very fragmented space, the Copy Progress Bar may not be accurate. If this happens, reformat your memory card before the next usage.

Connecting the COLORSPACE to a Computer via USB

Use the provided USB cable to connect COLORSPACE to the USB port on the back of the computer.



USB port on the back of the computer.

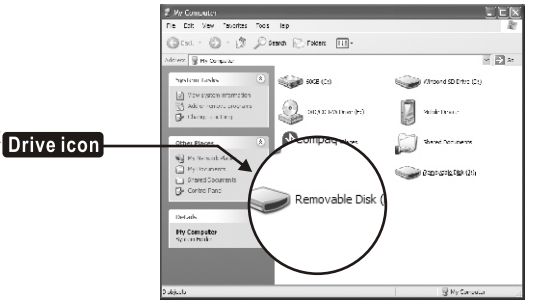
Select "USB" on the main menu.

Note

Connect only via the USB port on the back of your computer. Your computer may not detect COLORSPACE if you connect via a USB extension cable or a USB hub.

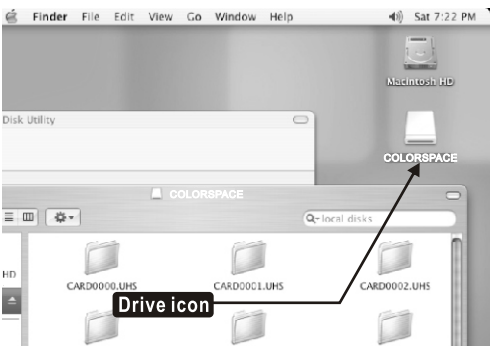
Windows Operation:

When Windows detects the COLORSPACE, it appears as a removable disk in "My Computer." You can then access COLORSPACE like an ordinary removable disk.



Mac OS Operation:

On Mac computers, a drive icon will appear on the desktop.



Note

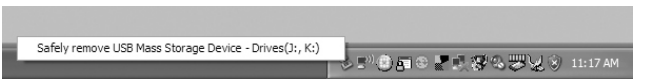
HyperDrive uses UDMA technology to increase data transfer speed to computers. As a result, you cannot use COLORSPACE as a card reader.

Safely Disconnecting COLORSPACE from a Computer:

You can disconnect COLORSPACE from a computer by pressing on the main menu. Try, however, to disconnect COLORSPACE safely.

In Windows:

Click on the "Safely Remove Hardware" icon and select "USB Mass Storage Device."
After Windows confirms that COLORSPACE has been removed, unplug the USB cable. COLORSPACE screen will then return to the main menu.



In Mac OS:

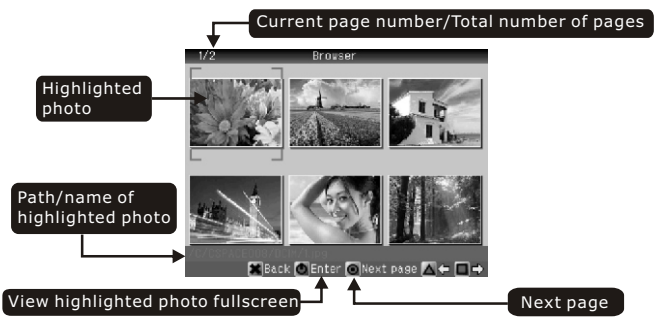
Drag the COLORSPACE removable drive icon to the trash to eject the COLORSPACE. Unplug the USB cable. COLORSPACE screen will then return to the main menu.

Photo Management

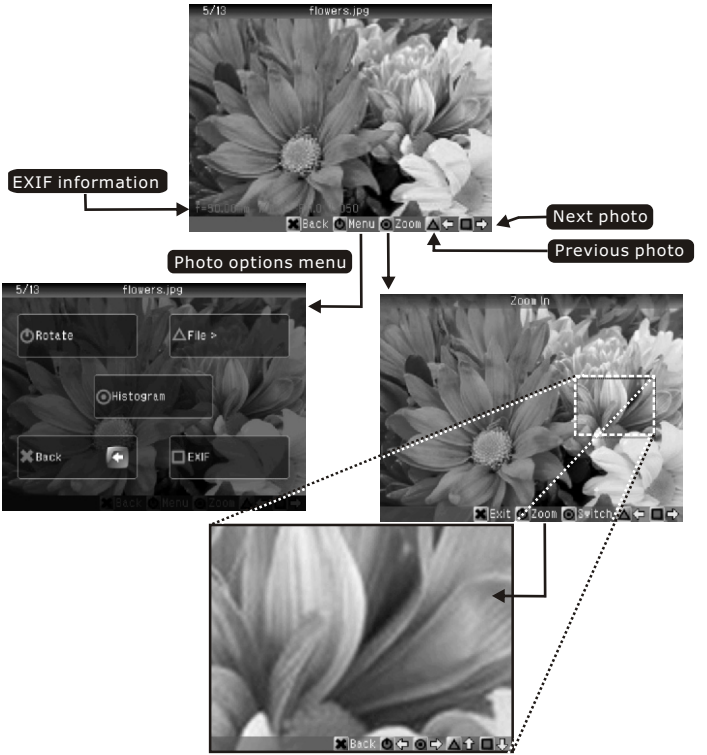
Browse Photos:

From the main menu, select Photo > Browser to enter the "Select Folder" screen.

On the "Select Folder" screen, highlight a folder to preview the images within and press [⊙] to view the folder contents.



On the thumbnail screen, highlight a photo and press to view it.



NOTE

When you open a photo for the first time, COLORSPACE creates an optimized 252k "thumb" version for faster subsequent loading and viewing. To manually create "thumbs" of photos, see "Build Thumbs" on page 18.

Search Photos:

You can search for photos by date.
From the main menu, select Photo > Search.

Browse photos

Note

COLORSPACE searches for photos by last date modified.

Recover Photos

COLORSPACE can recover photos deleted from a memory card.The recovered photos will be copied to COLORSPACE.

From the main menu, select More>Tools>Recover.

Select "CF to HDD" if you are recovering from a CF/MD card, otherwise select "Card to HDD".

COLORSPACE can only recover image files. Please refer to www.hyperdrive.com for types of image files supported.

In order to maintain data integrity during the recovery process, COLORSPACE does not write any data to the memory card.

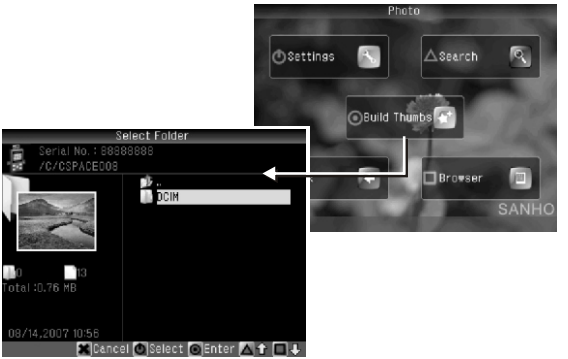
Note

Photo recovery will only be successful if the deleted photos has not yet be overwritten by newer data.

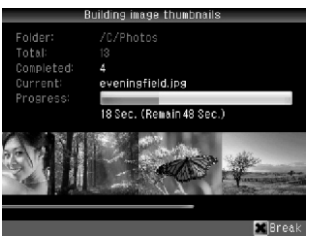
Build Thumbs

You can create optimized 252k "thumb" version of photos for faster loading and viewing on the COLORSPACE screen.

From the main menu, select Photo>Build Thumbs.



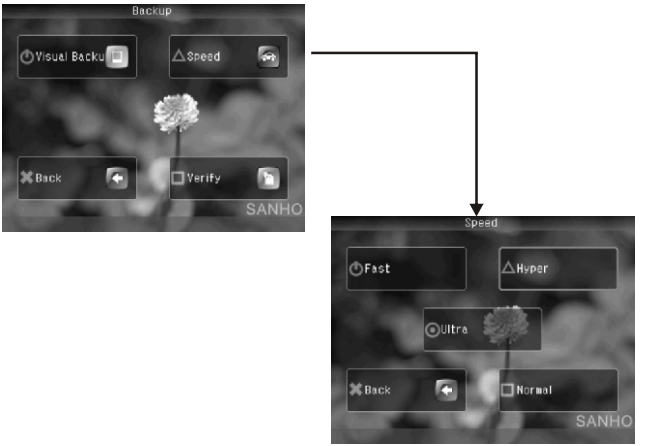
On the folder menu, select a folder and press ⊙. COLORSPACE will create "thumbs" of all the photos in the selected folder.



Backup Setup

Backup Speed Setup

From the main menu, select More>Settings>Backup>Speed.



Hyper Speed:
Designed for SanDisk Extreme III/IV or equivalent speed CF cards, can achieve the maximum transfer speed of 25MB/s.

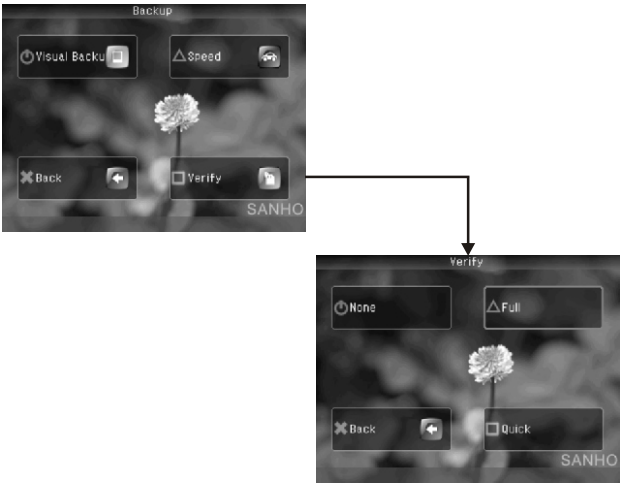
Ultra Speed:
Designed for professional series CF cards, can achieve a maximum transfer speed of 16MB/s.

Fast Speed:
Designed for majority of CF cards, can achieve a maximum transfer speed of 12MB/s.

Normal Speed:
Suitable for all types of memory cards, guaranteed maximum compatibility.

Verification Setup

From the main menu, select More>Settings>Backup>Verify



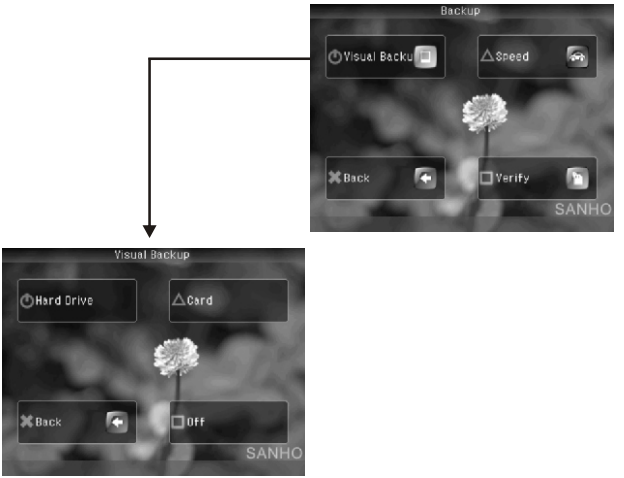
Full Verification:
After copying a file, the file on the COLORSPACE hard drive is compared bit by bit with the same file on the memory card to ensure that the data is identical and hence successfully transferred. This is the slower but most accurate verification process.

Quick verification:
This verifies 1 out of every 32 blocks of data.

None / No Verification:
No copy verification is performed.

Visual Backup Setup

From the main menu, select More>Settings>Backup>Visual Backup



Hard Drive:
Display image thumbnail from the hard drive just after it is copied to the COLORSPACE. This option also serves to confirm that the image has been copied to the COLORSPACE.

Card:
Display image thumbnail from the memory card just before it is about to be copied to the COLORSPACE. This option will yield a faster card backup speed than the previous option.

Off:
Does not display any image thumbnail during the backup process. This option will yield the fastest card backup speed.

Browser Setup

From the main menu, select Photo>Settings>Browser.

Change EXIF information display options

Create optimized 252k "thumb" versions of every image within a folder or the entire COLORSPACE

Adjust number of thumbnails per page

Interface Setup

From the main menu, select More>Settings>Interface.

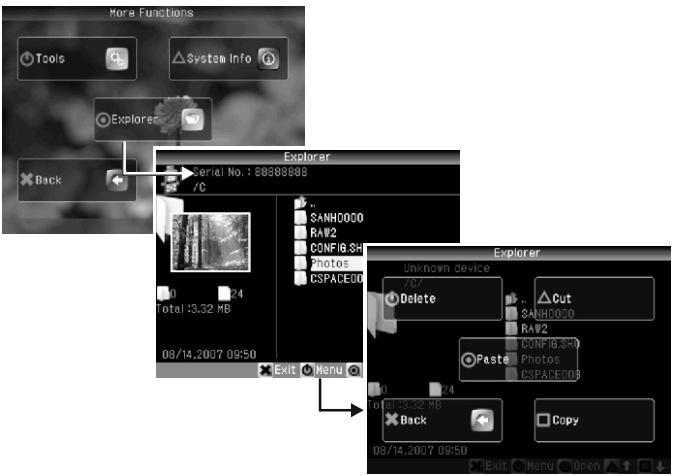
Change startup options

Change background image and button icons

Advanced Functions

File Management

From the main menu, select More>Explorer



The COLORSPACE is able to display the contents (files, folders) of the internal hard drive, the contents of any inserted memory card, file/folder path names, sizes and creation dates. For image files, the COLORSPACE will also display image previews.

To perform an operation on any file or folder (e.g. copy, cut, paste, delete), just highlight it and press ⊙ to access the operation menu.

CF Card Authenticity Verification

COLORSPACE can verify a CF (CompactFlash) memory card for authenticity to ensure that the card is made by the original manufacturer and not an imitation.

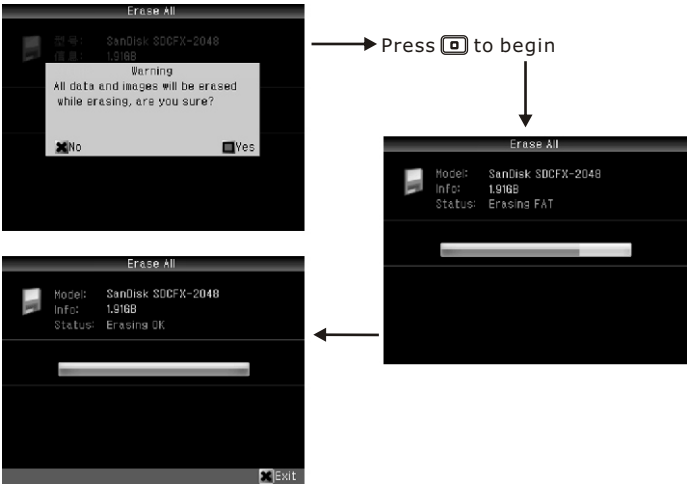
Insert a CF card into the COLORSPACE.
From the main menu, select More>Tools>Card Tools>Card Info.

If COLORSPACE identifies the CF card, an image of the card will appear on the screen. Refer to www.hyperdrive.com for a list of CF cards that COLORSPACE can verify for authenticity.

Card Erase

COLORSPACE can erase all the contents of a memory card.

From the main menu, select More>Tools>Card Tools>Erase Card.



Note

Note: COLORSPACE cannot erase memory cards formatted to FAT12. In addition, erasing a card only erases all the data in the FAT table and all records of root folders. Erasing does not format a card.

Memory Card Scan/Repair

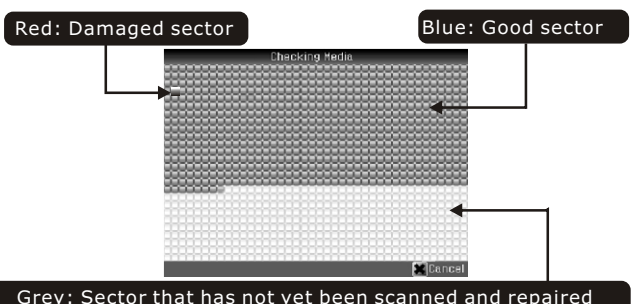
COLORSPACE has the ability to scan memory cards for errors and repair them if necessary. From the main menu, select More>Tools>Card Tools>Scan/Repair.

Quick Scan:

Quick Scan scans and repairs a memory card at high speed. However the memory card will be formatted in process and all data will be deleted. Before you do a Quick Scan, make sure that the memory card does not contain any data that you might need.

Standard Scan:

Standard Scan scans and repairs a memory card at a much slower speed. It will, however, preserve all data on the memory card. Standard Scan is recommended over Quick Scan.



At the end of scan/repair,COLORSPACE will give an overall report.

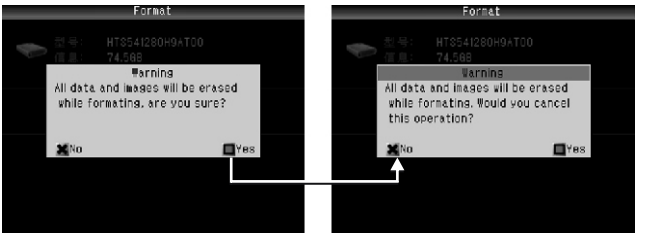
Hard Drive Formatting

Warning!

Only format the COLORSPACE internal hard drive with the device itself. Using a computer or other means to format the COLORSPACE hard drive may cause to device to malfunction and/or result in data loss.

You must format the COLORSPACE hard drive before you can use it.

From the main menu, select More > Tools > Drive Tools > Format and then follow the on-screen instructions.



Warning!

Formatting a hard drive will completely delete all data on the drive. If the drive has multiple partitions, they will all be removed.

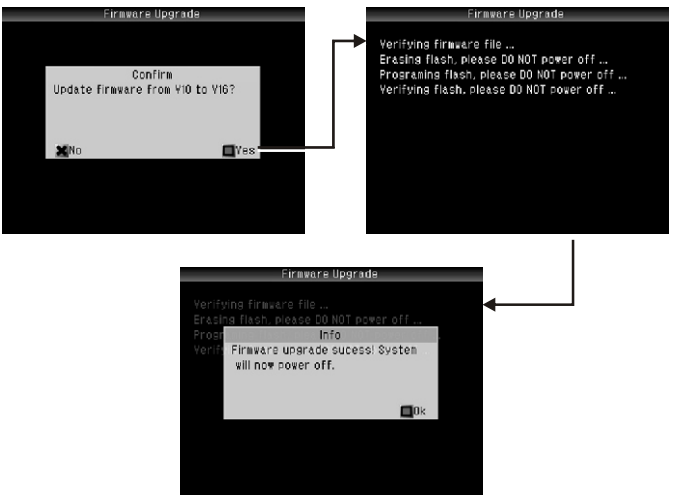
Firmware Updates

From time to time, firmware updates will be released to improve the functionality and performance of the COLORSPACE.

Download the latest firmware update file from www.hyperdrive.com and copy the file to COLORSPACE.

From the main menu, select More>Settings>Firmware

Browse to the firmware update file and press press


Firmware Upgrade
Confirm
Update Firmware from V10 to V16?
No
Yes
Firmware Upgrade
Verifying firmware file ...
Erasing flash, please DO NOT power off ...
Programing flash, please DO NOT power off ...
Verifying flash, please DO NOT power off ...
Firmware Upgrade
Verifying firmware file ...
Erasing flash, please DO NOT power off ...
Info
Firmware upgrade sucess! System will now power off.
Ok

Once the firmware has been updated, press to turn off the COLORSPACE. COLORSPACE will use the new firmware the next time you turn it back on.

Wallpaper Setup

If you wish to use your own graphics for the COLORSPACE wallpaper and button icons, you will need to enable this feature.
From the main menu,
select More>Settings>Interface Setup>Custom Icon>On

COLORSPACE wallpaper image must be a 320 x 240 pixels bitmap BMP file. Button icon images must be 32 x 32 pixels bitmap BMP file. Refer to the following table for the filenames of the respective wallpaper and button icon images.

File name	Location
BG. bmp	Wallpaper image
001_COPY. bmp	Main menu>Backup
002-START.bmp	Main menu>More>Settings>Interface>Startup
003-MORE.bmp	Main menu>More
004-FUN.bmp	Main menu>More>Tools
005-DISK.bmp	Main menu>More>Tools>Drive Tools
006-PHOTO.bmp	Main menu>Photo
007-SETUP.bmp	Main menu>More>Settings
008-SPEED.bmp	Main menu>More>Settings>Backup>Speed
009-CARD.bmp	Main menu>More>Tools>Card Tools
010-VERIFY.bmp	Main menu>More>Settings>Backup>Verify
011-SYSSET.bmp	Main menu>More>Settings>Interface
012-EXPLORER.bmp	Main menu>More>Explorer
013-VISUAL.bmp	Main menu>More>Settings>Backup>Visual Backup
014-OFF.bmp	Main menu>Shutdown
015-SYSINFO.bmp	Main menu>More>System Info
016-USB.bmp	Main menu>USB
018-FORMART.bmp	Main menu>More>Tools>Drive Tools>Format
019-CARDINFO.bmp	Main menu>More>Tools>Card Tools>Card Info

File name	Location
020-EARSE.bmp	Main menu>More>Tools>Card Tools>Erase Card
021-CARDSCAN.bmp	Main menu>More>Tools>Card Tools>Scan/Repair
022-RECOVER.bmp	Main menu>More>Tools>Recover
023-BROWSER.bmp	Main menu>Photo>Browser
024-SEARCH.bmp	Main menu>Photo>Search
025-PREVSET.bmp	Main menu>Photo>Settings
029-RESTORE.bmp	Main menu>More>Settings>Reset
038-USERICON.bmp	Main menu>More>Settings>Interface>Custom Icon
040-RETURN.bmp	Back
055-UPDATE.bmp	Main menu>Photo>Settings>Firmware
059-COPYSET.bmp	Main menu>Photo>Settings>Backup
070-THUMBS.bmp	Main menu>Photo>Build Thumbs

Name your custom image files accordingly and copy them to /C/CONFIG.SHO/USERICON/ directory. The customized graphics will appear after you restart the COLORSPACE.

Specifications

Operating Environment:

Temperature:	5 degree Celsius ~ 40 degree Celsius
Relative humidity:	8% ~ 90% non condensing
Temperature rate of change:	<20 degree Celsius/Hour

Technical Specifications:

Memory Card Slot:	First slot: CF Type I & II, MicroDrive Second slot: SD, MMC Third slot: MS, MS Pro, MS Duo/Pro
Hard Drive Capacity:	5.0V (+/-5%) 1A power supply 44Pin 2.5" IDE/PATA/ATA-6 Support 48bits LBA mode
Computer Interface:	USB2.0 High Speed/Full Speed, USB1.1 Compatible
Data Transfer Modes:	Transfer from memory card to hard drive (stand-alone) Transfer from hard drive to memory card (stand-alone) From hard drive to computer (via USB)
Data Transfer Speed:	Stand alone mode sustained rate: 25MBytes/S USB 2.0 sustained transfer rate: 28MBbytes/S (based on internal testing)
LCD Display:	2.2" TFT COLOR LCD
Operation Controls:	5 Buttons
Battery :	Internal 18650 Li-ion battery (3.7V 2200mAh)
Battery Autonomy:	Up to approximately 120GB of data transfer (based on internal testing)
Built-In Battery Charger:	Intelligent quick charger, Charging current 500mA ~ 900mA (+/- 10%)
Dimension:	133mm x 75mm x 25mm